

Appln No. 10/758,915

Amdt date June 27, 2005

Reply to Office action of March 28, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (Currently amended) A two-component dental bleaching system wherein the components are adapted to be admixed and applied to the teeth from a dental tray for sustained contact, said system comprising:

as a first component, a dental peroxide gel comprising both carbamide peroxide and hydrogen peroxide; and

as a second component, an orally compatible activator gel  
wherein said 2-component bleaching system is activatable without the application of heat or radiant energy.

Claim 2. (Original) The dental bleaching system according to claim 1, wherein the first component includes hydroxypropyl cellulose.

Claim 3. (Original) The dental bleaching system according to claim 1, wherein the first component comprises carbamide peroxide at a weight percentage of at least about 10%, based on the total weight of said first component.

Claim 4. (Original) The dental bleaching system according to claim 1, wherein the first component comprises hydrogen peroxide at a weight percentage of at least about 0.5%, based on the total weight of the first component.

Claim 5. (Original) The dental bleaching system according to claim 1, wherein the first component comprises hydrogen

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peroxide at a weight percentage of at least about 5%, based on the total weight of the first component.

Claim 6. (Original) The dental bleaching system according to claim 1, wherein the first component comprises carbamide peroxide at a weight percentage of at least about 16% and hydrogen peroxide at a weight percentage of at least about 1.5%, based on the total weight of the first component.

Claim 7. (Original) The dental bleaching system according to claim 1, wherein the first component comprises carbamide peroxide at a weight percentage from about 10% to about 25% and hydrogen peroxide at a weight percentage from about 0.5% to about 10%, based on the total weight of the first component.

Claim 8. (Original) The dental bleaching system according to claim 1, wherein the first component comprises carbamide peroxide at about 16% by weight and hydrogen peroxide at about 1.3% by weight, based on the total weight of the first component.

Claim 9. (Original) The dental bleaching system according to claim 1, wherein the first component comprises carbamide peroxide at about 16% by weight and hydrogen peroxide at about 6% by weight, based on the total weight of the composition.

Claim 10. (Original) The dental bleaching system according to claim 1, wherein the first component comprises carbamide peroxide at a weight percentage of about 16% and hydrogen peroxide at a weight percentage of about 10%, based on the total weight of the composition.

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Claim 11. (Original) The dental bleaching system according to claim 1, wherein the activator gel comprises sodium fluoride and potassium nitrate.

Claim 12. (Original) The dental bleaching system according to claim 1, wherein the activator gel comprises potassium nitrate and tetrapotassium pyrophosphate.

Claim 13. (Currently amended) A two-component dental bleaching system, wherein the components are adapted to be admixed and applied to the teeth from a dental tray for sustained contact, said system comprising:

as a first component, a dental peroxide gel comprising:

Propylene Glycol USP - ~~33.000%~~ 41.9% by wt.

~~Klucel GF~~ Hydroxypropyl Cellulose - ~~1.980%~~ by wt.

Glycerine USP - ~~8.420~~ 24.52% by wt.

~~Propylene Glycol USP~~ - ~~8.900%~~

~~GAB-O-SIL-EH-5~~ Fumed Silica - ~~4.500%~~ by wt.

Carbamide Peroxide USP - ~~16.200%~~ by wt.

~~Pelawax NF~~ Emulsifying Wax - ~~8.000%~~ by wt.

~~Glycerine USP~~ - ~~16.100%~~

Hydrogen Peroxide 50% CG - ~~2.900%~~ and

Antifoaming Agent - q.s.

Claim 14. (Currently amended) A two-component dental bleaching system, wherein the components are adapted to be admixed and applied to the teeth from a dental tray for sustained contact, said system comprising:

as a first component, a dental peroxide gel comprising:

Propylene Glycol USP - ~~33.000%~~ by wt.

~~Klucel GFF~~ Hydroxypropyl Cellulose - ~~1.980%~~ by wt.

Glycerin USP - ~~11.920%~~ 26.02% by wt.

~~GAB-O-SIL-EH-5~~ Fumed Silica - ~~4.500%~~ 26.02% by wt.

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Carbamide Peroxide USP	-	16.200% <del>+</del> <u>by wt.</u>
<del>Pelawax NF</del> Emulsifying Wax	-	6.500% <del>+</del> <u>by wt.</u>
<del>Glycerine USP</del>	-	14.100% <del>+</del>
Hydrogen Peroxide 50% CG	-	11.800% <del>+</del> <u>by wt.</u> and
Antifoaming Agent	-	q.s.

Claim 15. (Currently amended) A two-component dental bleaching system, wherein the components are adapted to be admixed and applied to the teeth from a dental tray for sustained contact, said system comprising:

as a first component, a dental peroxide gel comprising:

Propylene Glycol USP	-	33.000% <del>+</del> <u>by wt.</u>
<del>Klucel GFF</del> Hydroxypropyl Cellulose	-	1.980% <del>+</del> <u>by wt.</u>
Glycerine USP	-	16.920% <del>+</del> <u>31.02% by wt.</u>
<del>CAB-O-SIL-EH-5</del> Fumed Silica	-	4.500% <del>+</del> <u>by wt.</u>
Carbamide Peroxide USP	-	16.200% <del>+</del> <u>by wt.</u>
<del>Pelawax NF</del> Emulsifying Wax	-	6.500% <del>+</del> <u>by wt.</u>
<del>Glycerine USP</del>	-	14.100% <del>+</del>
Hydrogen Peroxide 50% CG	-	20.200% <del>+</del> and <u>by wt.</u>
Antifoaming Agent	-	q.s.

Claim 16. (Currently amended) A two component tooth bleaching system comprising a dual barrel syringe wherein the first barrel contains a bleaching gel composition comprising carbamide peroxide and aqueous hydrogen peroxide in the absence of a radiant energy or heat energy activator substance and the second barrel contains an orally compatible activator gel.

Claim 17. (Currently amended) The two component tooth bleaching system gel composition according to claim 16, wherein the bleaching gel composition comprises carbamide peroxide at a weight percentage of at least about 10%, based on the total weight of the composition.

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Claim 18. (Currently amended) The two component tooth bleaching system gel composition according to claim 16, wherein the bleaching gel composition comprises hydrogen peroxide at a weight percentage of at least about 0.5%, based on the total weight of the composition.

Claim 19. (Currently amended) The two component tooth bleaching system gel composition according to claim 16, wherein the composition comprises hydrogen peroxide at a weight percentage of at least about 5%, based on the total weight of the composition.

Claim 20. (Currently amended) The two component tooth bleaching system gel composition according to claim 16, wherein the composition comprises carbamide peroxide at a weight percentage of at least about 16% and hydrogen peroxide at a weight percentage of at least about 1.5%, based on the total weight of the composition.

Claim 21. (Currently amended) The two component tooth bleaching system gel composition gel composition according to claim 16, wherein the composition comprises carbamide peroxide at a weight percentage from about 10% to about 25% and hydrogen peroxide at a weight percentage from about 0.5% to about 10%, based on the total weight of the composition.

Claim 22. (Currently amended) The two component tooth bleaching system gel composition according to claim 16, wherein the composition comprises carbamide peroxide at about 16% by weight and hydrogen peroxide at about 1.3% by weight, based on the total weight of the composition.

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Claim 23. (Currently amended) The two component tooth bleaching system gel composition according to claim 16, wherein the composition comprises carbamide peroxide at about 16% by weight and hydrogen peroxide at about 6% by weight, based on the total weight of the composition.

Claim 24. (Currently amended) The two component tooth bleaching system gel composition gel composition according to claim 16, wherein the composition comprises carbamide peroxide at a weight percentage of about 16% and hydrogen peroxide at a weight percentage of about 10%, based on the total weight of the composition.

Claim 25. (Currently amended) A method for bleaching teeth comprising:

providing a dual barreled syringe wherein the first barrel of said syringe is loaded with a dental peroxide gel comprising both carbamide peroxide and hydrogen peroxide and the second barrel of said dual barrel syringe is loaded with ~~comprising~~ an orally compatible activator gel;

dispensing the first and second components from the syringe into a bleaching tray while mixing said components together to thereby form a bleaching gel; and

applying the bleaching tray and mixed together bleaching gel to the teeth to be whitened.

Claim 26. (Original) The method according to claim 25, wherein the dental peroxide gel comprises carbamide peroxide at a weight percentage of at least about 10%, based on the total weight of said dental bleaching gel.

Claim 27. (Original) The method according to claim 25, wherein the dental bleaching gel comprises hydrogen peroxide at

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a weight percentage of at least about 0.5%, based on the total weight of the dental bleaching gel.

Claim 28. (Original) The method according to claim 25, wherein the dental peroxide gel comprises hydrogen peroxide at a weight percentage of at least about 5%, based on the total weight of the dental peroxide gel.

Claim 29. (Original) The method according to claim 25, wherein the dental peroxide gel comprises carbamide peroxide at a weight percentage of at least about 16% and hydrogen peroxide at a weight of at least 1.5%, based on the total weight of the dental peroxide gel.

Claim 30. (Original) The method according to claim 25, wherein the dental peroxide gel comprises carbamide peroxide at a weight percentage of at about 10% to about 25% and hydrogen peroxide at a weight percentage of from about 0.5% to about 10%, based on the total weight of the dental peroxide gel.

Claim 31. (Original) The method according to claim 25, wherein the dental peroxide gel comprises carbamide peroxide at about 16% by weight and hydrogen peroxide at about 0.5% to about 10% by weight, based on a total weight of the dental peroxide gel.

Claim 32. (Original) The method according to claim 25, wherein the dental peroxide gel comprises carbamide peroxide at a weight percentage of about 16% and hydrogen peroxide at a weight percentage of about 10%, based on the total weight of the dental peroxide gel.

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Claim 33. (Original) The method according to claim 25, wherein the activator gel comprises sodium fluoride and potassium nitrate.

Claim 34. (Original) The method according to claim 25, wherein the activator gel comprises potassium nitrate and tetrapotassium pyrophosphate.